

ABSTRACT

Vertical take-off aircraft (1) has first (4) and second (17) lifting ~~means~~ mechanism (eg helicopter-type rotors, jets, turboprops) arranged in tandem, either above or outboard of
5 ends (2, 3). Lifting ~~means~~ mechanisms (4, 17) are independently tiltable, in multiple directions, by hydraulic rams (11, 13, 14, 16, 24, 26, 27, 29) to manoeuvre aircraft (1). In particular first lifting ~~means~~ mechanism (4) may be tilted in the opposite transverse direction to second lifting ~~means~~ mechanism (17) so
10 as to alter direction of flight. First lifting ~~means~~ mechanism (4) may be tilted by further hydraulic rams so that its rotor lies in a vertical plane for forward flight of aircraft (1).